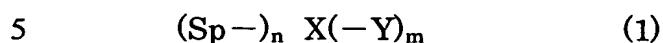
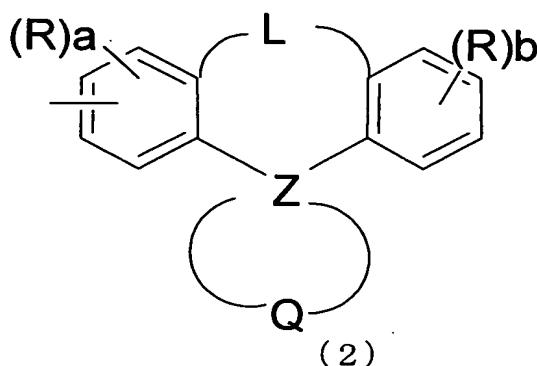


What is claimed is:

1. A compound having a spiro bond represented by a following general formula (1):



wherein Sp is a group having a spiro bond represented by a following general formula (2):



10 wherein L represents a single bond, $-(\text{CR}'\text{R}'')_e-$, $-(\text{Si R}' \text{R}'')_e-$, $-\text{O}-$, $-\text{CO}-$ or $-\text{NR}'-$;

R' and R'' each independently represents a hydrogen atom, a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms, a substituted or unsubstituted heterocyclic group having 5 to 50 ring atoms, or a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms; e represents an integer of 1 to 10; further R' and R'' may be the same with or different from each other;

Z represents a carbon atom, a silicon atom or a germanium atom;

Q represents a group forming a ring structure;

20 R represents a substituted or unsubstituted aromatic group having 6 to 50

ring carbon atoms, a substituted or unsubstituted heterocyclic group having 5 to 50 ring atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 7 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 ring atoms, a substituted or unsubstituted arylthio group having 5 to 50 ring atoms, a substituted or unsubstituted alkoxycarbonyl group having 2 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group or a hydroxyl group; when there are plural of R, they may be the same with or different from each other and they may be bond with each other to form a ring structure; a and b each independently represents an integer of 0 to 4;

X represents a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms, a substituted or unsubstituted condensed aromatic ring group having 12 to 20 ring carbon atoms, a substituted or unsubstituted aromatic heterocyclic group having 5 to 50 ring atoms or a group formed by combining plural of the preceding groups; excluding a case where X is an anthracendiyl group or a polyanthracendiyl group;

Y represents a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms and may further having a vinyl-bond and still further may contain a group having a spiro bond represented by the general formula (2);

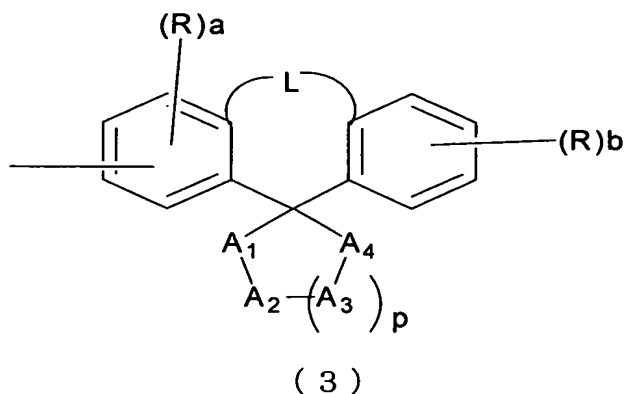
n represents an integer of 1 to 4;

m represents an integer of 1 to 2; and

when Sp in the general formula (1) is a spirobifluorenyl group, a case where X has a backbone structure selected from a group consisting of

pyrenylene backbone structure, chrysenylene backbone structure and phenanthrene backbone structure is excluded.

2. The compound having a spiro bond according to Claim 1, wherein Sp in the general formula (1) is represented by the following general formula (3):



- wherein R represents a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms, a substituted or unsubstituted heterocyclic group having 5 to 50 ring atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 7 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 ring atoms, a substituted or unsubstituted arylthio group having 5 to 50 ring atoms, a substituted or unsubstituted alkoxycarbonyl group having 2 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group or a hydroxyl group;
- L represents a single bond, $-(CR'R'')_e-$, $-(SiR'R'')_e-$, $-O-$, $-CO-$ or $-NR'-$;

a and b each independently represents an integer of 0 to 4;

A₁ to A₄ each independently represents —CR'R"—, —SiR'R"—, —O—, —NR'— or —CO—;

5 R' and R" each independently represents a hydrogen atom, a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms, a substituted or unsubstituted heterocyclic group having 5 to 50 ring atoms, or a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms; R' and R" may be the same with or different from each other and they may bond with each other to form a ring structure; and

10 p represents an integer of 1 to 10.

3. The compound having a spiro bond according to Claim 2, wherein at least two adjacent components among A₁ to A₄ in the general formula (3) each represents —CR'R"—;

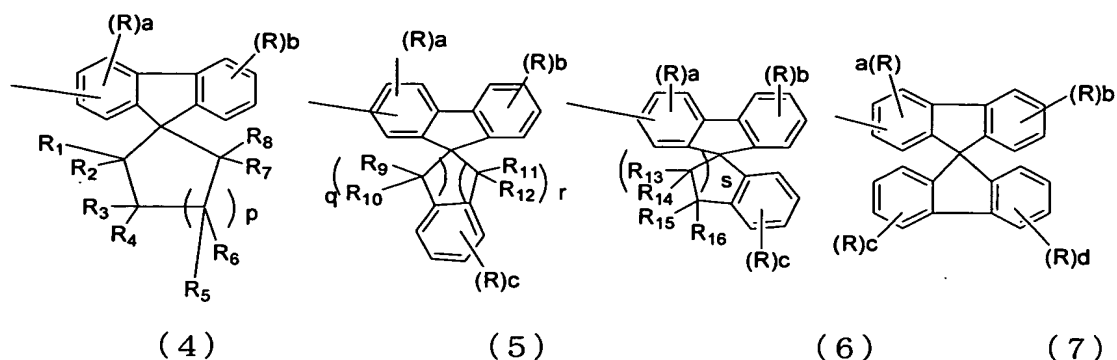
15 R' and R" each independently represents a hydrogen atom, a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms, a substituted or unsubstituted heterocyclic group having 5 to 50 ring atoms, or a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms; R' and R" may be the same with or different from each other and they may
20 bond with each other to form a ring structure; and

the adjacent R's, the adjacent R"s or both R' and R" will bond saturatedly or unsaturatedly forming a ring structure having 4 to 50 carbon atoms as a result.

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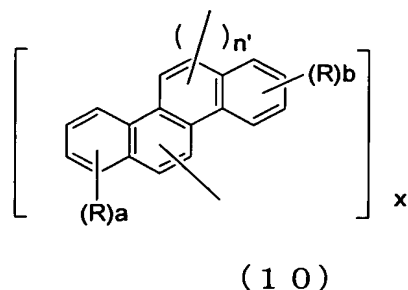
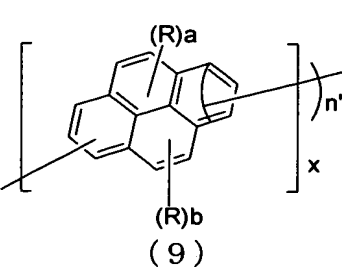
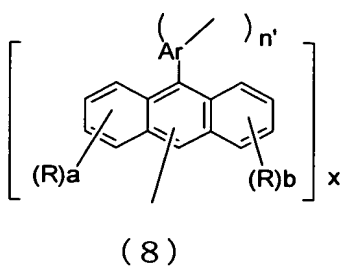
4. The compound having a spiro bond according to Claim 1, wherein Sp is a group represented by any one of the following general formulae (4) to (7):

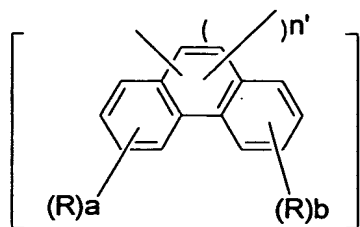
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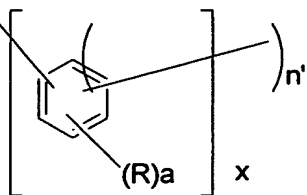
wherein R represents a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms, a substituted or unsubstituted heterocyclic group having 5 to 50 ring atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 7 to 50 ring atoms, a substituted or unsubstituted aryloxy group having 5 to 50 ring atoms, a substituted or unsubstituted arylthio group having 5 to 50 ring atoms, a substituted or unsubstituted alkoxycarbonyl group having 2 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group or a hydroxyl group; when there are plural of R, they may be the same with or different from each other and they may be bond with each other to form a ring structure; and

- R_1 to R_{16} each independently represents a hydrogen atom, a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms, a substituted or unsubstituted heterocyclic group having 5 to 50 ring atoms, a substituted or unsubstituted alkyl group having 1 to 50 carbon atoms, a substituted or unsubstituted alkoxy group having 1 to 50 carbon atoms, a substituted or unsubstituted aralkyl group having 7 to 50 carbon atoms, a substituted or unsubstituted aryloxy group having 5 to 50 ring atoms, a substituted or unsubstituted arylthio group having 5 to 50 ring atoms, a substituted or unsubstituted alkoxycarbonyl group having 2 to 50 carbon atoms, a carboxyl group, a halogen atom, a cyano group, a nitro group or a hydroxyl group; at least two among R_1 to R_{16} may bond each other to form a ring structure;
- a, b, c and d each represents an integer of 0 to 4 respectively;
- p, q, r and s each represents an integer number of 1 to 10 respectively;
- wherein X is a group represented by any one of the following general formulae (8) to (25) or a group made by combining at least two of groups represented by the following general formulae (8) to (25):

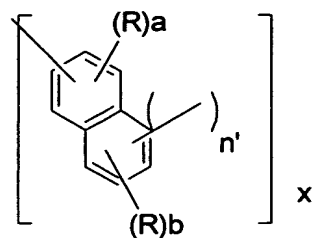




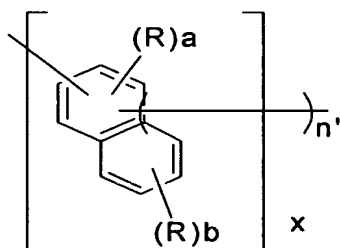
(1 1)



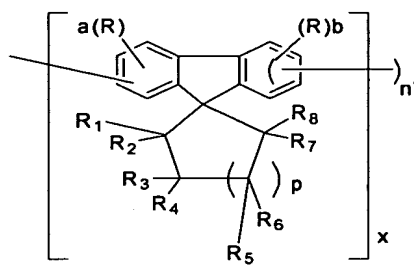
(1 2)



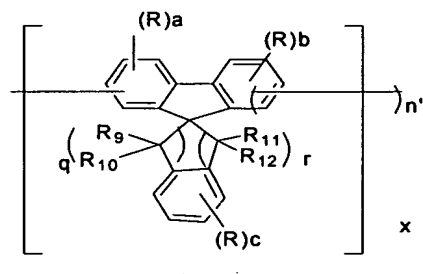
(1 3)



(1 4)

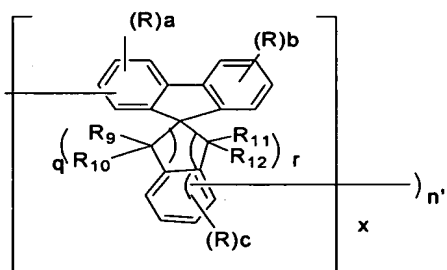


(1 5)

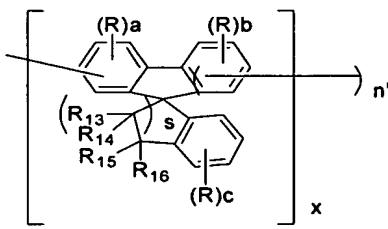


(1 6)

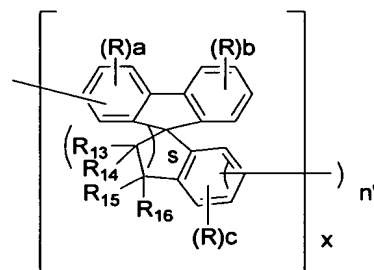
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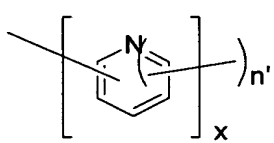
(1 7)



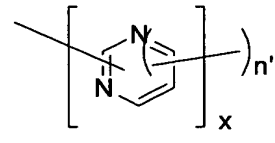
(1 8)



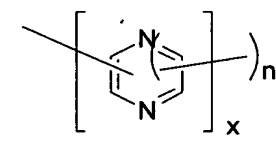
(1 9)



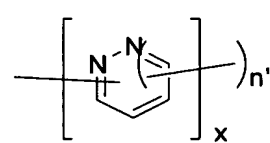
(20)



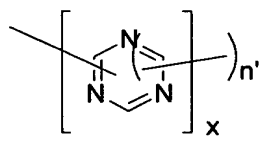
(2 1)



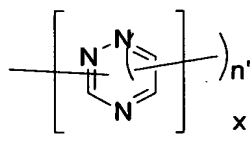
(2 2)



(2 3)



(2 4)



(2 5)

wherein R, R₁ to R₁₆, a to d and p to s are the same as the foregoing description;

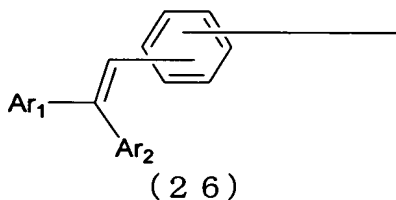
wherein Ar represents a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms, a substituted or unsubstituted aromatic heterocyclic group having 5 to 50 ring atoms, or a group made by combining plural of those preceding groups; excluding a case where Ar is an anthracendiyl group or a polyanthracendiyl group;

n' represents an integer of 0 to 5;

x represents an integer of 1 to 20; and

when Sp is a group represented by the general formula (7), a case where X is a group represented by any one of the general formulae (9) to (11) is excluded.

5. The organic electroluminescence device according to Claim 4, wherein Y in the general formula (1) is a group represented by a general formula (26):



wherein Ar₁ and Ar₂ each independently represents a substituted or unsubstituted aromatic group having 6 to 50 ring carbon atoms respectively and further, Ar₁ and Ar₂ may be the same with or different from each other.

6. A compound having a spiro bond according to any one of Claims 1 to 5,

which is a light emitting material for an organic electroluminescence device.

7. A material for forming a luminous coated film which comprises the
5 compound having a spiro bond according to any one of Claims 1 to 5.

8. An organic electroluminescence device which comprises at least one
organic thin film layer sandwiched between a pair of electrode consisting
of an anode and a cathode, wherein the organic thin film layer comprises
10 the compound having a spiro bond according to any one of Claims 1 to 5.

9. The organic electroluminescence device according to Claim 8, wherein
said light emitting layer comprises the compound having a spiro bond.

15 10. The organic electroluminescence device according to Claim 8, which
emits bluish light.

11. The organic electroluminescence device according to Claim 9, which
emits bluish light.